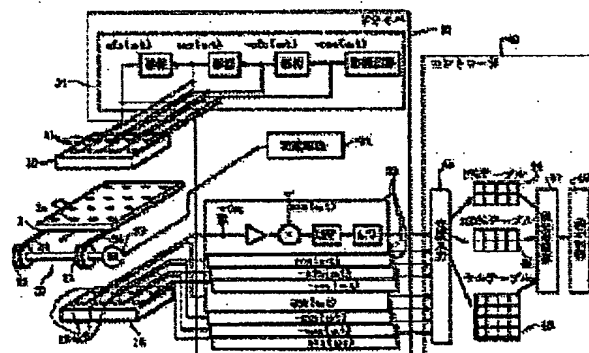


ABSORPTIOMETER**Publication number:** JP11037929**Publication date:** 1999-02-12**Inventor:** YASUNAKA TOSHIO; FUJITA MAMORU; OSHINA CHIZUKO; YAMADA YASUSHI**Applicant:** TOKIMEC INC; DAINIPPON PRINTING CO LTD**Classification:****- International:** G01J3/42; G01N21/01; G01N21/27; G01N21/59; G01J3/42; G01N21/01; G01N21/25; G01N21/59; (IPC1-7); G01N21/27; G01J3/42; G01N21/01; G01N21/59**- European:****Application number:** JP19970203826 19970714**Priority number(s):** JP19970203826 19970714**Report a data error here****Abstract of JP11037929**

PROBLEM TO BE SOLVED: To realize simultaneous measurement of a plurality of points by applying specified modulation conditions to back/forth and left/right adjacent LEDs emitting the majority of leakage light in case of a matrix-like measuring point.

SOLUTION: A plurality of light emitting diodes LEDs 11 corresponding to a plurality of cells 1a are arranged on the upper surface of a plate 1 and each cell is irradiated with light at the time of photometry. A driver 30 generates a plurality of driving currents containing AC components of specified frequency having different phase which are supplied simultaneously to the plurality of LEDs 11. Adjacent LEDs 11 are also supplied with the driving current containing the AC component of orthogonal phase among the plurality of driving currents. A photodiode PD 16 detects the light from respective LEDs 11 being driven simultaneously, and a luminous intensity detection circuit 33 calculates the correlation value of each luminous intensity signal and the AC component of driving current of the LED 11 and a controller 40 determines the absorbance of each cell 1a based on the correlation value. According to the arrangement, respective signals can be discriminated and a plurality of points can be measured simultaneously.



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